JIMMY FENG

phone: 917-837-2772 | email: jfeng1996@gmail.com | website: jimmy-feng.github.io | code: github.com/jimmy-feng

EXECUTIVE SUMMARY

- Geospatial & GIS data scientist and analyst with 6 years' experience developing location and statistical models with a focus on the built environment and its effects on public health issues (food and job access & social costs of energy consumption) and real estate
- Deep expertise in developing space-time GIS software, spatial econometric modeling, geospatial analysis (spatial autocorrelation,
- spatial regression, etc.), transportation modeling, integrating heterogeneous data sets, data visualization, and technical writing
- Fluent in Python and ArcGIS Map, Pro, and Online; experienced with R, HTML, (Postgre)SQL, GeoDa, QGIS, Git and TransCAD
- Results-oriented leader and technical communicator: mentored 2 PhD students; former lead course instructor of Geovisualization and GIS to forty undergraduate students; and served as liaison between graduate student body and department faculty

Formerly a geospatial consultant at National Geographic Society's Geographic Visualization Lab, strategically managing the development of a dynamically updated land-cover map of the world for environmental risk management with partners at Google

EDUCATION

 PhD in Geography & GIS University of Tennessee, Knoxville 4.00 GPA Dissertation: Extracting human perceptions from Google reviews and group interviews with deep learning algorithms to understand spatial and perceived access to basic needs with e-grocery, telehealth, and e-work Awarded a four-year Ph.D. fellowship and graduate fellowship for dissertation research from the University of Tennessee (1 to 2 scholarships available for ~100 applicants), securing a total of ~\$120,000 Received 2021 teaching excellence award for teaching undergraduate GIS course Drafted and managed legal and regulatory compliance programs to survey and interview 450 people 	Present – Anticipated 2022
BA in Geography and Urban Studies State University of New York at Geneseo 3.60 GPA	2018
PROFESSIONAL & RESEARCH EXPERIENCE	
 Graduate Research Assistant: University of Tennessee, Department of Electrical Engineering and Computer Science Collaborated with 5 researchers at the National Science Foundation, Oak Ridge National Laboratory and University of Tennessee, resulting in a submitted <i>Nature</i> publication, with 2 more forthcoming, all within 6 months after work began Developed spatial econometric models with pysal (Python) and GeoDa to understand how households' financial inability to pay utility bills arises from socioeconomic, geographic, and health factors in the U.S. Refined local spatial autocorrelation models in ArcGIS Pro to identify clusters of energy burden across the U.S. 	Present
 Graduate Research Assistant: University of Tennessee, Departments of Geography & History Wrote Python functions and scripts to automate the data cleaning, social network analysis, statistical modeling, visualization, and mapping of academic knowledge networks Created space-time GIS layers and functions with Tracking Analyst in ArcGIS Map 10.8 to query, visualize, and analyze movement trajectories of global author collaboration networks 	2020 – 2021
 Geospatial and Cartography Consultant: National Geographic Society – Geographic Visualization Lab Managed collaboration with 20 geospatial consultants and satellite imagery experts to develop a training dataset for a <u>dynamically-updated global land cover map for environmental risk management</u> Created 4 maps derived from satellite imagery for a deep-sea science expedition in the Russian Arctic Sea Responsible for high-end cartographic production and scientific report writing for geospatial data products 	2019
 Geospatial and GIS Consultant: Community Solutions Analyzed survey results of 40 residents and 267 households in the Seth Low Housing Projects which found that more than 33% suffered from rodent or cockroach infestation and 30% identified mold. Click for full report. Reports and analyses of the housing landscape in Brownsville were used to establish a community land trust Constructed a GIS database containing housing, land parcel, zoning, and population data in Brownsville Analyzed areas with a large number of housing foreclosures, potential land parcels for acquisition, and distance to train stations with various geospatial tools including hotspot and network analysis in ArcGIS Map and Pro 	2018 - 2019

EXTRA-CURRICULARS

• Vice-President of geography graduate student body, organizing social events and checking-in on students' wellbeing and progress

• Geospatial and pro-bono consulting to other graduate students, assisting with data management plans, GIS methodology, Python training, legal and regulatory compliance with human subjects research, and editing technical and scientific reports